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DERWENT-WEEK: 198514

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TITLE: Ion-exchange resin regeneration in reflux filter -
employs working chamber contg. plate with openings and
deflectors, mounted above blocking layer

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PATENT-FAMILY:

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ABSTRACTED-PUB-NO: SU 1111815A

BASIC-ABSTRACT:

The invention relates to the process of water purificn. from admixtures in the form of ions, using ion-exchange resins, and can be applied to any ion-exchange filter. It employs countercurrent reflux ion-exchange filter equipped with plate made of anticorrosive material, contg. openings, circular or rectangular in shape, with deflectors of the same shape mounted under them.

The plate (1) has openings of circular or longitudinal slot shape and deflector with central conical ridge, mounted on pins under openings and of shape corresponding to that of the openings. The plate is made of e.g. stainless steel or polymer material. The plate is mounted above the blocking layer (6) situated above the collection-distribution unit (7), with a layer (8) of the filtering ion-exchange resin mounted below it. The plate (1) is fixed to the walls of casing (9) which, near its dished heads (10), contains top and bottom collection-distribution units (12,13 resp.). The vessel (11) is filled with

water.

ADVANTAGE - Increased efficiency of purificn., reduced consumption of electric energy and of the regeneration soln. by a factor of 3-6; reduction of overall sizes of pipes and fittings.

CHOSEN-DRAWING: Dwg.1/5